

A photograph of a modern, single-story office building with a light-colored facade and large windows. A tree stands to the left of the building, and a well-manicured lawn is in the foreground. The sky is clear and blue. The text "dB Control" is overlaid in large white letters at the top, and "Corporate Capabilities" is overlaid in large white letters at the bottom. The website address "www.dbcontrol.com" is at the very bottom.

dB Control

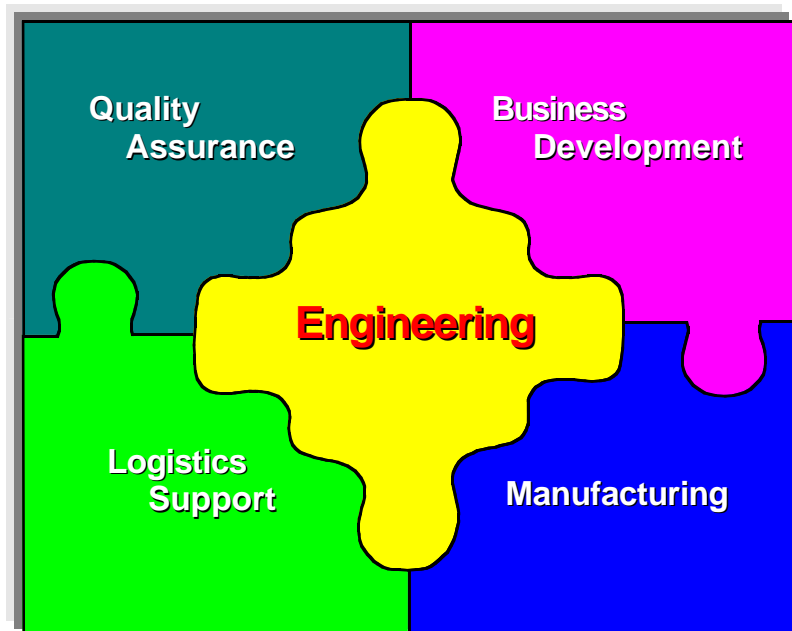
Corporate Capabilities

www.dbcontrol.com

Overview

- ◇ Corporate
- ◇ Past Contracts
- ◇ Major Products
- ◇ Summary

***Engineering is the center piece
of dB Control's Organization***



Corporate Overview

- ◇ 16,000 - Square Foot Facility Located in Fremont, CA
- ◇ Support to Military and Commercial Customers
- ◇ Design, Manufacture, and Test High Voltage Power Supplies (HVPS) and Traveling Wave Tube Amplifiers (TWTAs)
- ◇ Major Supplier of Encapsulated Magnetics for Rugged Environments
- ◇ Engineering Services

Past Performance

Major Customers

Arcata Associates

CPI (Varian)

E-Systems (Raytheon)

Hughes

Australia (DSTO)

Sandia Labs

Tracor

Vitro

Varian

Product

Hub Mount TWTA, Remote Control Unit

HV Power Supplies, Mechanical

Crowbars, Resistive Loads, HV Transformers

LV & HV Power Supplies, TWTAs

HV Power Supplies

HV Power Supplies

HV Power Supplies, TWTAs

TWTAs, HV Power Supplies

Hub Mount TWTA

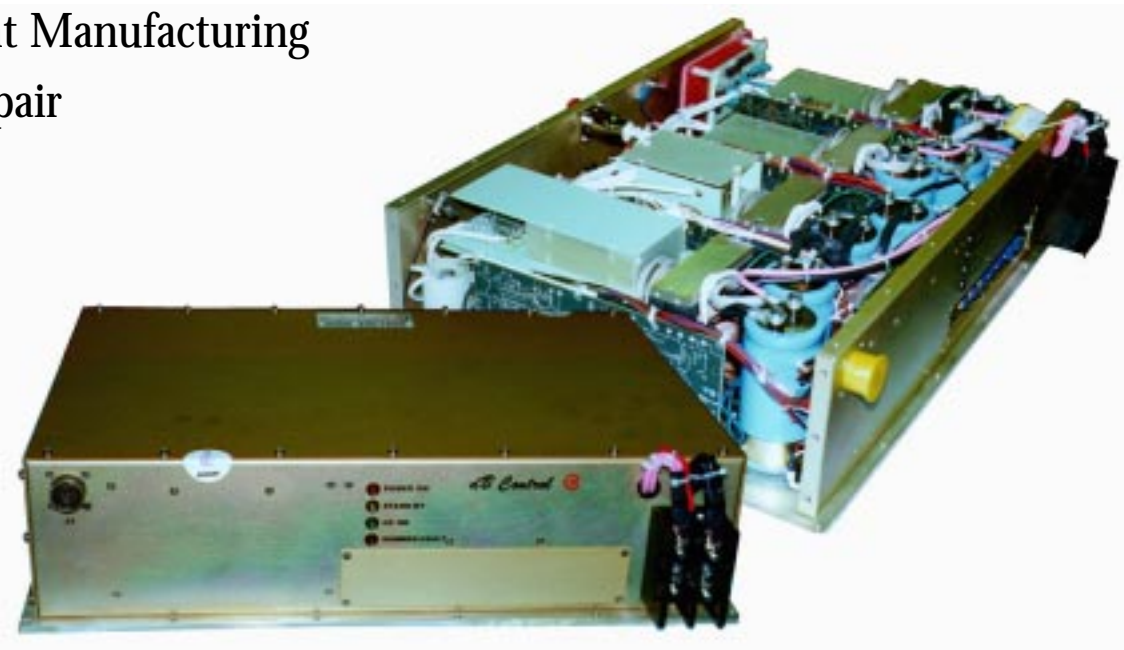
HV Power Supply Repair and Refurbishment

***Winner of the “Rising Star” Award
by Defense Electronics Magazine***

Major Products

- ◇ TWT Amplifiers (TWTA)
- ◇ High Voltage Power Supplies (HVPS)
- ◇ High Voltage Components
- ◇ Specialized Build-to-Print Manufacturing
- ◇ HVPS and Amplifier Repair

***Telecommunications
Power Supply***



dB Control, 1120 Auburn Street, Fremont, CA 94538 (510) 656-6606 (510) 656-3214 Fax
www.dbcontrol.com

TWT Amplifiers

- ◇ High Reliability
 - △ Military Airborne Applications
 - △ Environmental and Tight Form-Factor Packaging
- ◇ Designed to Custom Specifications
 - △ TWT Selected Based on Customer Requirements
 - △ Extensive use of COTS - NDI
- ◇ Environmental Stress Screening



350 Watt CW, 12.75 - 14.5 GHz

TWTA Amplifiers Continued

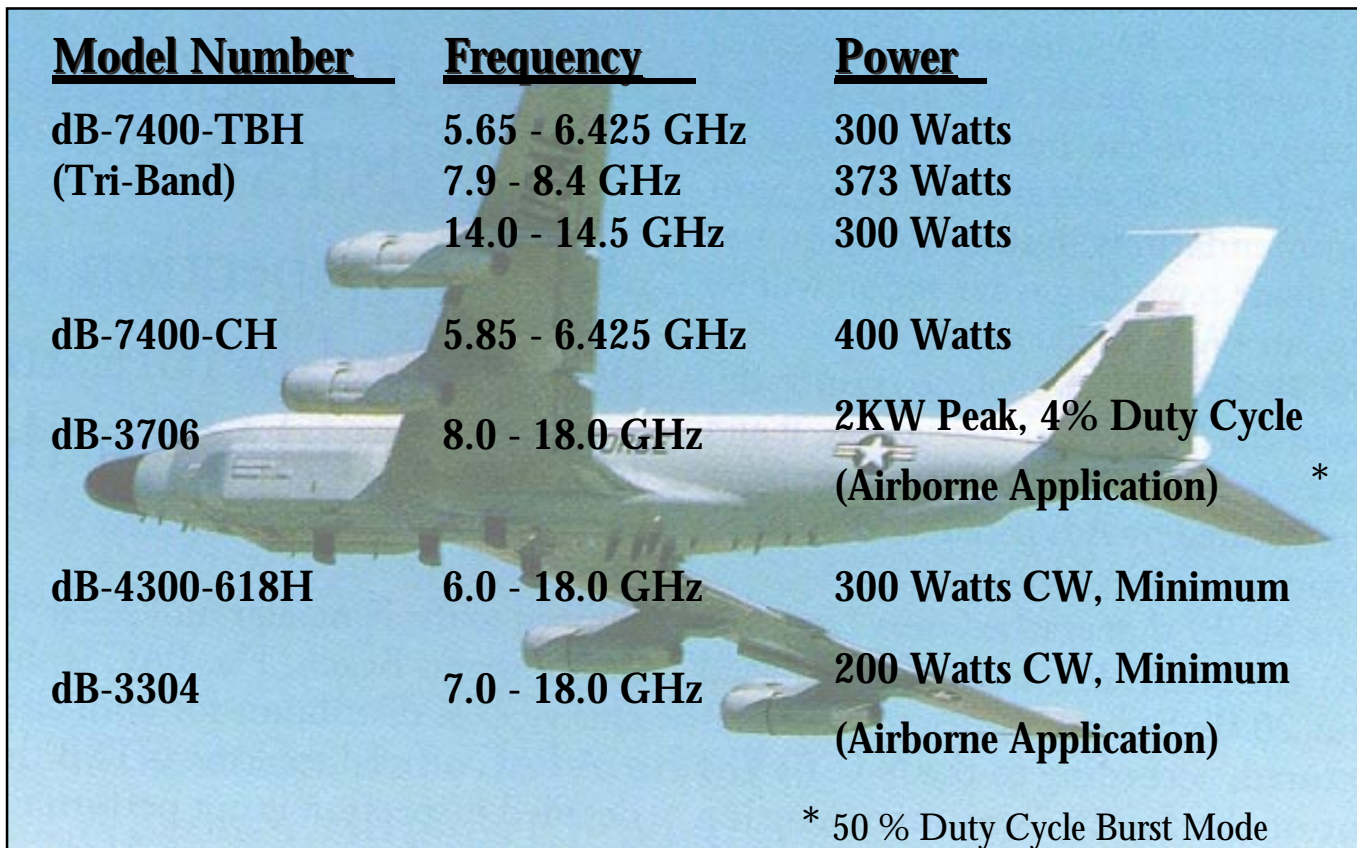
◇ Commercial or Military Applications

- △ Telecommunications
- △ Electronic Warfare Training Systems
- △ Airborne Jammers
- △ Towed Decoys



***Proof of Principle Threat Simulator
with 6 - 18 GHz TWTA***

TWTA Summary

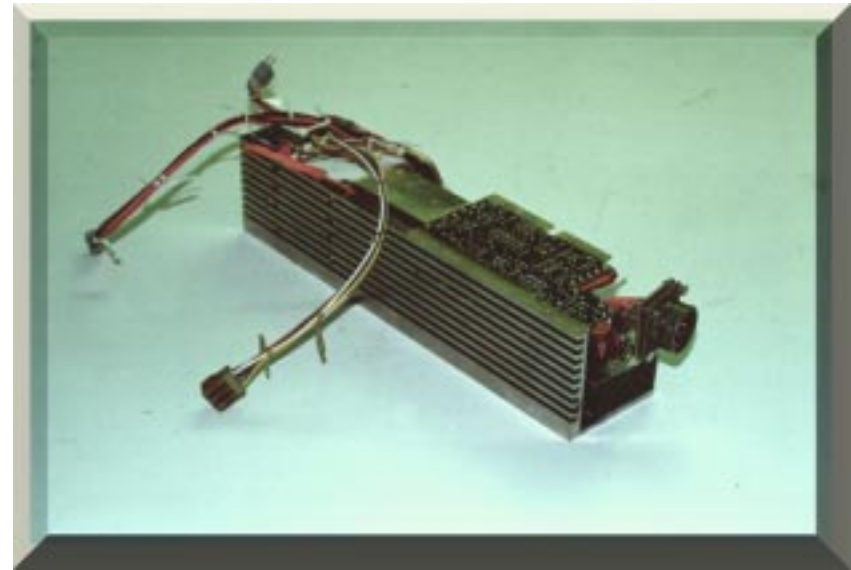


<u>Model Number</u>	<u>Frequency</u>	<u>Power</u>
dB-7400-TBH (Tri-Band)	5.65 - 6.425 GHz	300 Watts
	7.9 - 8.4 GHz	373 Watts
	14.0 - 14.5 GHz	300 Watts
dB-7400-CH	5.85 - 6.425 GHz	400 Watts
dB-3706	8.0 - 18.0 GHz	2KW Peak, 4% Duty Cycle (Airborne Application) *
dB-4300-618H	6.0 - 18.0 GHz	300 Watts CW, Minimum
dB-3304	7.0 - 18.0 GHz	200 Watts CW, Minimum (Airborne Application)

* 50 % Duty Cycle Burst Mode

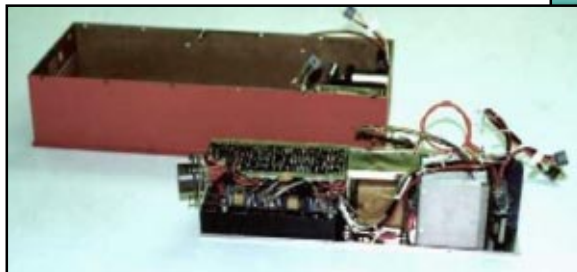
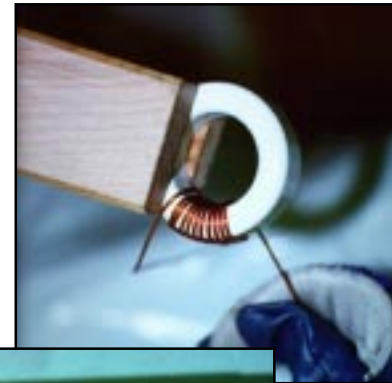
Power Supply Design

- ◇ Custom Made to Support a Wide Variety of Applications
 - △ Low Cost to Full Mil Spec
 - △ Radar
 - △ Jamming
 - △ Towed Decoy
 - △ Communications
 - △ Airborne or Ground Systems
- ◇ ESS Screening to Customer Specifications
- ◇ Follow On Logistics Support



Power Supply Design Continued

- ◇ Towed Decoy HV Power Supply
- ◇ Aircraft 28 VDC Input Power
- ◇ 4.3 KV Output Voltage
- ◇ Unit drives up to 100 meters of cable connecting the aircraft to the Towed Decoy
- ◇ Supports Airborne Jammer Applications



TWT Test Set Power Supply

◇ Designed for TWT Development Support

△ Handles 3 Simultaneous TWTs

- Ω High Power CW
- Ω Low Power CW
- Ω Pulsed

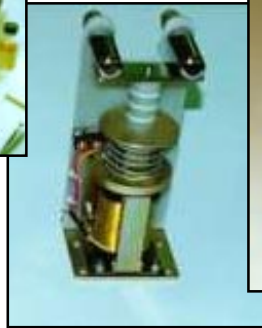
△ Provides Hot-Mockup

- Ω TWT test and evaluation
- Ω Performance characterization
- Ω Measurement data collection
- Ω Burn-in

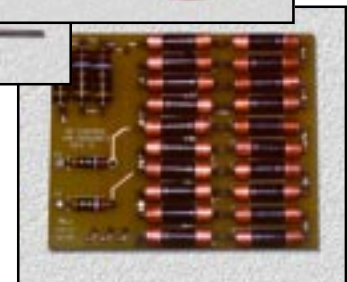
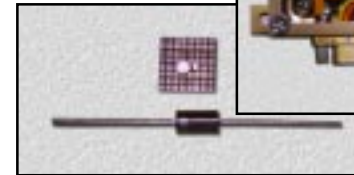


Component Manufacturing

- ◇ Full Service Potting Lab
- ◇ Innovative Manufacturing
 - △ Custom Coil and Transformer Fabrication
 - △ High Voltage Crowbars
 - △ Mil Spec Assembly and ESS



Conventional and Surface Mount Technology



Custom Copper Heatsinks to pull the heat out of diode rectifier assemblies

Build-to-Print Manufacturing

- ◇ Quick Turn Around
- ◇ Acceptance Testing
- ◇ ESS Screening As Specified
- ◇ Engineering Documentation



High Voltage Section

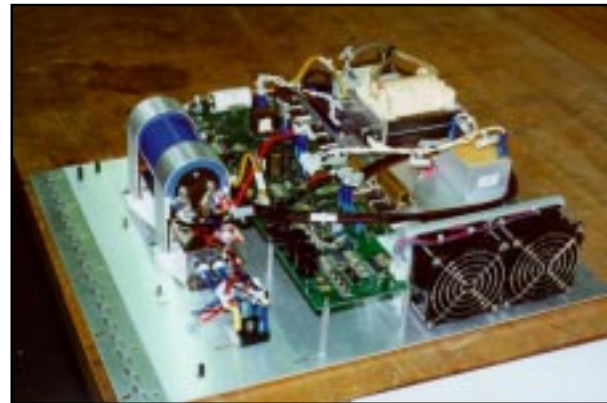
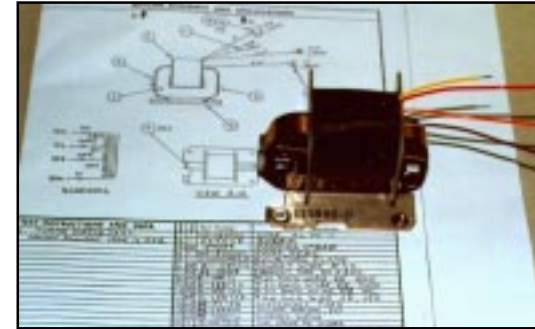


Klystron Power Supply Test Set

***Manufacturing
Quality Assurance to
MIL-I-45208!***

Build-to-Print Manufacturing Continued

- ◇ Component or Assembly and Test
 - △ With Customer Supplied Materials
 - △ Or, Purchased Through Our Logistics Shop
 - △ Completed Test Procedure
 - △ Final Quality Inspection
 - △ Direct Shipping



Summary

- ◇ Developed the Industry's First 6 - 18 GHz, 300W TWTA using a Single TWT
- ◇ Developed the TWT Power Supplies used on Sandia National Laboratories X-Band Synthetic Aperture Radar...Met an Extremely Aggressive Delivery Schedule
- ◇ Recognized Major Supplier to Communications and Power Industries (CPI) Satcom Division...Awarded Highest Quality of all Certified Vendors
- ◇ Developed the Complex Aegis Test Sets for Varian

Summary Continued

- ◇ Recognized Major Supplier to the X-Ray Industry, and to CPI's Satcom Division...Awarded Highest Quality of all Certified Vendors
- ◇ Provided Encapsulated High Voltage Magnetics for a Wide Variety of Customers
- ◇ Manufactured over 700 High Voltage Mechanical Crowbars and Relays Annually within a Kanban Blanket PO "JIT" Structure

For More Information Contact:
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